

## AFT FLADE ENGINE

## ABSTRACT

5       An aft FLADE gas turbine engine includes a fan  
section drivenly connected to a low pressure turbine  
section, a core engine located between the fan  
bypass duct circumscribing the core engine and in  
fluid communication with the fan section, and a mixer  
10       downstream of the low pressure turbine section and in  
fluid communication with the fan bypass duct, and an  
aft FLADE turbine downstream of the mixer. At least  
one row of aft FLADE fan blades disposed radially  
outwardly of and connected to the aft FLADE turbine  
and radially extending across a FLADE duct  
15       circumscribing the fan bypass duct. The aft FLADE  
turbine may be a free turbine or connected to and  
rotatable with the low pressure turbine section. A  
power extraction apparatus may be disposed within the  
engine and drivenly connected to the aft FLADE  
20       turbine.